METHODS OF FORMING FERROELECTRIC CAPACITORS USING SEPARATE POLISHING PROCESSES AND FERROELECTRIC CAPACITORS SO FORMED

ABSTRACT

Ferroelectric memory devices can be formed by polishing an insulating layer on a plurality of ferroelectric capacitors with a silica slurry to reduce a height of the insulating layer above a surface of the plurality of ferroelectric capacitors so that the surface remains covered by a portion of the insulating layer. The insulating layer can be further polished with a ceria slurry to further reduce the height of the insulating layer and to expose a polishing stop layer on the surface of the plurality of ferroelectric capacitors. Related devices are also disclosed.